

EAST
7/29/04

L Number	Hits	Search Text	DB	Time stamp
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3	149	("5921885" "5799748" "4846021" "4940105" "5484352" "4766774" "6109879" "5317870" "5482138" "5701811" "5769206" "6260524" "6276763" "6289271" "6322164" "6345548" "6623402" "5209141" "4393732" "4785689" "4850937" "5372214" "6085707" "6385837" "6440040" "6554736" "4526401" "5214913" "5250761" "5005445" "4896568" "4968861" "5826952" "5967253" "4265136" "4275804" "4388806" "4783743" "5306215" "5449330" "5490442" "4275392" "4560110" "4782717" "4793561" "4838622" "4996894" "5239897" "5277671" "5537887").pn. ("5944626" "6090000" "6092618" "4296652" "4298105" "4394886" "4395927" "4485694" "4552041" "4627500" "4831825" "4871887" "4915204" "4917205" "4944200" "4958753" "4964506" "4982620" "4982826" "5209317" "5228239" "5291804"	USPAT; US-PGPUB	2004/07/29 12:29
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4	3	5921885.URPN.	USPAT	2004/07/29 12:20
7	169	701/62.ccls.	USPAT; US-PGPUB	2004/07/29 12:29
8	52	701/62.ccls. and ignition	USPAT; US-PGPUB	2004/07/29 12:29
9	0	701/62.ccls. and ignition with control adj2 valve	USPAT; US-PGPUB	2004/07/29 12:30
10	8	701/62.ccls. and ignition with valve	USPAT; US-PGPUB	2004/07/29 12:30
13	0	((abnormality or malfunction or defective or failure) with (detect or detecting or detector) same ignition adj switch same hydraulic)	JPO	2004/07/29 12:33
14	1	((abnormality or malfunction or defective or failure) same (detect or detecting or detector) same ignition adj switch same hydraulic)	JPO	2004/07/29 12:34
15	6	((abnormality or malfunction or defective or failure) same ignition adj switch same hydraulic)	JPO	2004/07/29 13:05
16	4	((abnormality or malfunction or defective or failure) same ignition adj switch same hydraulic)	US-PGPUB	2004/07/29 12:36
17	43	((abnormality or malfunction or defective or failure) same ignition adj switch same hydraulic)	USPAT; US-PGPUB	2004/07/29 12:36
18	1	((abnormality or malfunction or defective or failure) same ignition adj switch same hydraulic) same continued	USPAT; US-PGPUB	2004/07/29 12:39
19	1	((abnormality or malfunction or defective or failure) same ignition adj switch same hydraulic) same continued	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 12:39
20	0	((abnormality or malfunction or defective or failure) same ignition adj switch same hydraulic) same continued near5 power	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 12:40
21	0	((abnormality or malfunction or defective or failure) same ignition adj switch same hydraulic) same electromagnet\$4 near5 power	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 12:40
22	28383	electromagnet\$4 near5 power	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 12:40
23	1906	electromagnet\$4 near5 power with valve	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 12:40
24	53	electromagnet\$4 near5 power with valve same ignition	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 12:42
25	1	4973855.pn. and ignition	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 13:00
26	1	4973855.pn. and ignition same "off"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 13:03
27	29829	ignition same "off"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 13:03
28	20447	ignition with "off"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 13:03
29	1091	ignition with "off" same (solenoid or electromagnet\$ or control) adj2 valve	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 13:04

30	86	ignition with "off" same (solenoid or electromagnet\$ or control) adj2 valve same hydraulic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 13:04
31	86	ignition with "off" same (solenoid or electromagnet\$ or control) adj2 valve same hydraulic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 13:05
32	3	ignition with "off" same (solenoid or electromagnet\$ or control) adj2 valve same hydraulic same ((abnormality or malfunction or defective or failure) same ignition adj switch same hydraulic)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 13:08
33	4	ignition with "off" same (solenoid or electromagnet\$ or control) adj2 valve same hydraulic same (abnormality or malfunction or defective or failure) same ignition	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 13:09

	149	("5921885" "5799748" "4846021" "4940105" "5484352" "4766774" "6109879" "5317870" "5482138" "5701811" "5769206" "6260524" "6276763" "6289271" "6322164" "6345548" "6623402" "5209141" "4393732" "4785689" "4850937" "5372214" "6085707" "6385837" "6440040" "6554736" "4526401" "5214913" "5250761" "5005445" "4896568" "4968861" "5826952" "5967253" "4265136" "4275804" "4388806" "4783743" "5306215" "5449330" "5490442" "4275392" "4560110" "4782717" "4793561" "4838622" "4996894" "5239897" "5277671" "5537887").pn. ("5944626" "6090000" "6092618" "4296652" "4298105" "4394886" "4395927" "4485694" "4552041" "4627500" "4831825" "4871887" "4915204" "4917205" "4944200" "4958753" "4964506" "4982620" "4992826" "5209317" "5228239" "5291804"	USPAT; US-PGPUB	2004/07/29 12:09
Search History 7/29/04 1:40:28 PM Page 5 C:\APPS\east\workspaces\10826378.wsp				

-	427	sugimura.in.	USPAT; US-PGPUB	2004/07/28 13:28
-	10436	sugimura.in. or toyota.asn.	USPAT; US-PGPUB	2004/07/29 10:52
-	15909	ignition near3 switch	USPAT; US-PGPUB	2004/07/28 13:10

	29	("5921885" "5799748" "4846021" "4940105" "5484352" "4766774" "6109879" "5317870" "5482138" "5701811" "5769206" "6260524" "6276763" "6289271" "6322164" "6345548" "6623402" "5209141" "4393732" "4785689" "4850937" "5372214" "6085707" "6385837" "6440040" "6554736" "4526401" "5214913" "5250761" "5005445" "4896568" "4968861" "5826952" "5967253" "4265136" "4275804" "4388806" "4783743" "5306215" "5449330" "5490442" "4275392" "4560110" "4782717" "4793561" "4838622" "4996894" "5239897" "5277671" "5537887").pn. ("5944626" "6090000" "6092618" "4296652" "4298105" "4394886" "4395927" "4485694" "4552041" "4627500" "4831825" "4871887" "4915204" "4917205" "4944200" "4958753" "4964506" "4982620" "4982826" "5209317" "5228239" "5291804"	USPAT; US-PGPUB	2004/07/28 13:27
Search History 7/29/04 1:40:28 PM Page 7 C:\APPS\least\workspaces\10828378.wsp				

-	42715	(abnormality or malfunction or defective or failure) with (detect or detecting or detector)	USPAT; US-PGPUB	2004/07/28 13:36
-	0	(abnormality or malfunction or defective or failure) with (detect or detecting or detector) same On near3 off same ignition	USPAT; US-PGPUB	2004/07/28 13:12
-	0	(abnormality or malfunction or defective or failure) with (detect or detecting or detector) same "On" near3 "off" same ignition	USPAT; US-PGPUB	2004/07/28 13:12
-	146	(abnormality or malfunction or defective or failure) with (detect or detecting or detector) same ignition adj switch	USPAT; US-PGPUB	2004/07/28 13:45

	0	((abnormality or malfunction or defective or failure) with (detect or detecting or detector) same ignition adj switch same hydraulic) and ("5921885" "5799748" "4846021" "4940105" "5484352" "4766774" "6109879" "5317870" "5482138" "5701811" "5769206" "6260524" "6276763" "6289271" "6322164" "6345548" "6623402" "5209141" "4393732" "4785689" "4850937" "5372214" "6085707" "6385837" "6440040" "6554736" "4526401" "5214913" "5250761" "5005445" "4896568" "4968861" "5826952" "5967253" "4265136" "4275804" "4388806" "4783743" "5306215" "5449330" "5490442" "4275392" "4560110" "4782717" "4793561" "4838622" "4996894" "5239897" "5277671" "5537887").pn. ("5944626" "6090000" "6092618" "4296652" "4298105" "4394886" "4395927" "4485694" "4552041" "4627500" "4831825" "4871887" "4915204" "4917205" "4944200" "4958753" "4964506" "4982629" "4982826" "5209317"	USPAT; US-PGPUB	2004/07/28 13:14
Search History 7/29/04 1:40:28 PM Page 9 C:\APPS\east\workspaces\10826378.wsp				

-	4	((abnormality or malfunction or defective or failure) with (detect or detecting or detector) same ignition adj switch same hydraulic and (sugimura.in. or toyota.asn.)	USPAT; US-PGPUB	2004/07/29 12:33
-	8	(abnormality or malfunction or defective or failure) with (detect or detecting or detector) same ignition adj switch same hydraulic	USPAT; US-PGPUB	2004/07/28 13:16
-	1	(abnormality or malfunction or defective or failure) with (detect or detecting or detector) same ignition adj switch near6 "turned off" same hydraulic	USPAT; US-PGPUB	2004/07/28 13:18
-	11	ignition adj switch near6 "turned off" with power near4 continues!	USPAT; US-PGPUB	2004/07/28 13:19
-	15	ignition adj switch near6 ("turned off" or turned near5 "off" or turned) with power near4 continues!	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 13:20

-	17	("5921885" "5799748" "4846021" "4940105" "5484352" "4766774" "6109879" "5317870" "5482138" "5701811" "5769206" "6260524" "6276763" "6289271" "6322164" "6345548" "6623402" "5209141" "4393732" "4785689" "4850937" "5372214" "6085707" "6385837" "6440040" "6554736" "4526401" "5214913" "5250761" "5005445" "4896568" "4968861" "5826952" "5967253" "4265136" "4275804" "4388806" "4783743" "5306215" "5449330" "5490442" "4275392" "4560110" "4782717" "4793561" "4838622" "4996894" "5239897" "5277671" "5537887").pn. ("5944626" "6090000" "6092618" "4296652" "4298105" "4394886" "4395927" "4485694" "5209317" "4552041" "4627500" "4831825" "4871887" "4915204" "4917205" "4944200" "4958753" "4964506" "4982620" "4982826" "5209317" "5228239" "5291804"	USPAT; US-PGPUB	2004/07/28 13:22
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-	0	abnormality adj detecting same hydraulic same electromagnet\$ adj valve	USPAT; US-PGPUB	2004/07/28 13:24
-	1	abnormality adj detect\$4 same hydraulic same electromagnet\$ adj valve	USPAT; US-PGPUB	2004/07/28 13:24
-	125	electromagnet\$ adj valve same ignition adj switch	USPAT; US-PGPUB	2004/07/28 13:25
-	8	electromagnet\$.clm. adj valve.clm. same ignition.clm. adj switch.clm.	USPAT; US-PGPUB	2004/07/28 13:25

	8	<p>((("5921885"</p> <p>"5799748"</p> <p>"4846021"</p> <p>"4940105"</p> <p>"5484352"</p> <p>"4766774"</p> <p>"6109879"</p> <p>"5317870"</p> <p>"5482138"</p> <p>"5701811"</p> <p>"5769206"</p> <p>"6260524"</p> <p>"6276763"</p> <p>"6289271"</p> <p>"6322164"</p> <p>"6345548"</p> <p>"6623402"</p> <p>"5209141"</p> <p>"4393732"</p> <p>"4785689"</p> <p>"4850937"</p> <p>"5372214"</p> <p>"6085707"</p> <p>"6385837"</p> <p>"6440040"</p> <p>"6554736"</p> <p>"4526401"</p> <p>"5214913"</p> <p>"5250761"</p> <p>"5005445"</p> <p>"4896568"</p> <p>"4968861"</p> <p>"5826952"</p> <p>"5967253"</p> <p>"4265136"</p> <p>"4275804"</p> <p>"4388806"</p> <p>"4783743"</p> <p>"5306215"</p> <p>"5449330"</p> <p>"5490442"</p> <p>"4275392"</p> <p>"4560110"</p> <p>"4782717"</p> <p>"4793561"</p> <p>"4838622"</p> <p>"4996894"</p> <p>"5239897"</p> <p>"5277671"</p> <p>"5537887").pn.</p> <p>("5944626"</p> <p>"6090000"</p> <p>"6092618"</p> <p>"4296652"</p> <p>"4298105"</p> <p>"4394886"</p> <p>"4395927"</p> <p>"4485694"</p> <p>"4552041"</p> <p>"4627500"</p> <p>"4831825"</p> <p>"4871887"</p> <p>"4915204"</p> <p>"4917205"</p> <p>"4944200"</p> <p>"4958753"</p> <p>"4964506"</p> <p>"4982620"</p> <p>"4982826"</p> <p>"5209317"</p> <p>"5228239"</p> <p>"5291804"</p>	USPAT; US-PGPUB	2004/07/28 13:27
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-	146935	sugimura.in. or toyota.asn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 13:29
-	1431	(sugimura.in. or toyota.asn.) and ignition adj switch	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 13:29
-	29	(sugimura.in. or toyota.asn.) and ignition adj switch same hydraulic adj pressure	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 13:31
-	3	ignition adj switch same hydraulic adj pressure same (fail or failure or malfunction or defect\$4 or abnormal\$4) same (detect\$ or recogniz\$4) same valve	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 13:33
-	5	(sugimura.in. or toyota.asn.) and ignition adj switch same hydraulic adj pressure same (fail or failure or malfunction or defect\$4 or abnormal\$4) same (detect\$ or recogniz\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 13:35
-	572	(abnormality or malfunction or defective or failure) with (detect or detecting or detector) same hydraulic	USPAT; US-PGPUB	2004/07/28 13:37
-	61	((abnormality or malfunction or defective or failure) with (detect or detecting or detector) same hydraulic) and (sugimura.in. or toyota.asn.)	USPAT; US-PGPUB	2004/07/28 13:38
-	45	((abnormality or malfunction or defective or failure) with (detect or detecting or detector) same hydraulic) and (sugimura.in. or toyota.asn.)) and (477/\$.ccls. or 475/\$.ccls. or 192/\$.ccls. or 303/\$.ccls. or 74/\$.ccls. or 73/\$.ccls. or 701/\$.ccls.)	USPAT; US-PGPUB	2004/07/28 13:54
-	0	((abnormality or malfunction or defective or failure) with (detect or detecting or detector) same hydraulic) and (sugimura.in. or toyota.asn.)) and (477/\$.ccls. or 475/\$.ccls. or 192/\$.ccls. or 303/\$.ccls. or 74/\$.ccls. or 73/\$.ccls. or 701/\$.ccls.)) and electromagnetic adj control adj valve	USPAT; US-PGPUB	2004/07/28 13:43
-	0	(abnormality or malfunction or defective or failure) with (detect or detecting or detector) same ignition adj switch same electromagnetic adj control adj valve	USPAT; US-PGPUB	2004/07/28 13:45
-	0	(abnormality or malfunction or defective or failure) with (detect or detecting or detector) same electromagnetic adj control adj valve	USPAT; US-PGPUB	2004/07/28 13:46
-	0	(abnormality or malfunction or defective or failure) same (detect or detecting or detector) same electromagnetic adj control adj valve	USPAT; US-PGPUB	2004/07/28 13:48
-	21	((abnormality or malfunction or defective or failure) with (detect or detecting or detector) same hydraulic) and (sugimura.in. or toyota.asn.)) and (477/\$.ccls. or 475/\$.ccls. or 192/\$.ccls. or 74/\$.ccls. or 73/\$.ccls. or 701/\$.ccls.)	USPAT; US-PGPUB	2004/07/28 13:55
-	146941	sugimura.in. or toyota.asn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 10:52
-	106	(sugimura.in. or toyota.asn.) and automatic adj transmission same (solenoid or electromagnet\$4) with control adj valve	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 10:59
-	1	(sugimura.in. or toyota.asn.) and automatic adj transmission same (solenoid or electromagnet\$4) with control adj valve same hydraulic adj2 pressure with (defect\$4 or malfunction or abnormal\$4 or fail\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 10:58
-	21	automatic adj transmission same (solenoid or electromagnet\$4) with control adj valve same hydraulic adj2 pressure with (defect\$4 or malfunction or abnormal\$4 or fail\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 10:58
-	0	automatic adj transmission same (solenoid or electromagnet\$4) with control adj valve same hydraulic adj2 pressure with (defect\$4 or malfunction or abnormal\$4 or fail\$4) same ignition	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 10:59

-	0	automatic adj transmission same (solenoid or electromagnet\$4) with control adj valve same hydraulic adj2 pressure with (defect\$4 or malfunction or abnormal\$4 or fail\$4) and ignition	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 10:59
-	201276	ignition	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 10:59
-	4	(sugimura.in. or toyota.asn.) and automatic adj transmission same (solenoid or electromagnet\$4) with control adj valve same ignition	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/29 11:00
-	12320	477/\$.ccls.	USPAT; US-PGPUB	2004/07/29 11:09
-	59	477/\$.ccls. and ((sugimura.in. or toyota.asn.) and automatic adj transmission same (solenoid or electromagnet\$4) with control adj valve)	USPAT; US-PGPUB	2004/07/29 11:10
-	3	477/906.ccls. and ((sugimura.in. or toyota.asn.) and automatic adj transmission same (solenoid or electromagnet\$4) with control adj valve)	USPAT; US-PGPUB	2004/07/29 11:10

Butler, Douglas

PLUS 4
7/29/04

From: PLUS
Sent: Monday, July 12, 2004 12:25 PM
To: Butler, Douglas
Subject: PLUS Results for 10826378

Here are the PLUS search results for 10826378.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10826378_QUAL.txt



10826378_LIST.txt



10826378_WEST.txt



10826378_EAST.txt



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PLUS Search Results for S/N 10826378, Searched July 12, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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3680989
4168638
4248656
4280663
4335985
4350109
4363249
4369671
4386521
4396099
4400039
4431096
4436065
4444073).pn.
(4452101
4462276
4473971
4490874
4505355
4506773
4506563
4513850
4513835
4513639
4513638
4518055
4519274
4519273
4538482
4557661
4570502
4573649

10826378_EAST

4574908
4577739
4586590
4590406
4596165
4602529
4615227
4618040
4627509
4773277
4784099
4799404
4809586
4811617
4821607
4823647
4828462
4832579
4833945
4841447
4846020
4846022
4856465
4875391
4890515
4898078
4898333
4905545
4915599
4928235
4930375
4932697) .pn.

10826378_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10826378 on July 12, 2004

Original Classifications

6 180/422
4 477/125
3 74/335
3 192/3.58
3 477/154
3 477/155
2 74/336R
2 180/414
2 192/106F
2 241/36
2 474/28
2 475/127
2 475/129
2 477/107
2 477/114
2 477/123
2 477/133
2 477/99

Cross-Reference Classifications

11 477/906
6 477/155
4 180/247
4 192/3.58
3 74/335
3 192/3.31
3 475/128
3 477/131
3 477/138
3 477/158
3 477/160
3 701/52
2 60/406
2 60/581
2 74/388PS
2 123/90.15
2 137/625.64
2 180/272
2 192/109F
2 192/222
2 192/30W
2 192/48.91
2 192/85R
2 192/87.16
2 303/122.12
2 303/71
2 303/9.61
2 417/310
2 475/123
2 475/132
2 475/60
2 475/61
2 477/117
2 477/149

2 477/154
2 477/36
2 701/66

Combined Classifications

11 477/906
9 477/155
7 180/422
7 192/3.58
6 74/335
5 477/125
5 477/154
4 180/247
4 192/3.31
4 477/131
4 477/138
3 74/336R
3 123/90.15
3 474/28
3 475/128
3 475/129
3 477/149
3 477/158
3 477/160
3 701/52
2 60/406
2 60/547.1
2 60/581
2 74/388PS
2 74/733.1
2 123/90.17
2 137/625.64
2 180/233
2 180/272
2 180/414
2 192/106F
2 192/109F
2 192/222
2 192/3.57
2 192/30W
2 192/48.91
2 192/85AA
2 192/85R
2 192/87.16
2 241/36
2 303/113.2
2 303/122.12
2 303/71
2 303/9.61
2 417/310
2 417/38
2 474/18
2 475/123
2 475/127
2 475/132
2 475/60
2 475/61
2 475/65
2 477/107

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2 477/114
2 477/116
2 477/117
2 477/123
2 477/126
2 477/129
2 477/133
2 477/152
2 477/36
2 477/62
2 477/98
2 477/99
2 701/65
2 701/66

10826378_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10826378 on July 12, 2004

- 11 477/906 (0 OR, 11 XR)
Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
INCLUDING ENGINE CONTROL
477/906 MEANS DETECTING OR AMELIORATING THE EFFECTS OF
MALFUNCTION OR POTENTIAL MALFUNCTION
- 9 477/155 (3 OR, 6 XR)
Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
INCLUDING ENGINE CONTROL
477/34 TRANSMISSION CONTROL
477/115 .Transmission controlled by engine
477/121 ..By input manifold pressure or engine fuel
control
477/143 ...Servo motor timing
477/155Electric valve control
- 7 180/422 (6 OR, 1 XR)
Class 180 : MOTOR VEHICLES
180/400 STEERING GEAR
180/417 .With fluid power assist
180/421 ..With condition modulated steering
180/422 ...With electrical control
- 7 192/3.58 (3 OR, 4 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/3.51 TRANSMISSION CONTROL AND CLUTCH CONTROL
192/3.54 .Common control
192/3.55 ..Power-operated clutch
192/3.57 ...Fluid-press operated
192/3.58Electrically triggered
- 6 74/335 (3 OR, 3 XR)
Class 074 : MACHINE ELEMENT OR MECHANISM
74/640 GEARING
74/325 .Interchangeably locked
74/335 ..Control mechanism
- 5 477/125 (4 OR, 1 XR)
Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
INCLUDING ENGINE CONTROL
477/34 TRANSMISSION CONTROL
477/115 .Transmission controlled by engine
477/121 ..By input manifold pressure or engine fuel
control
477/125 ...Prevents unsafe or unintentional shift
- 5 477/154 (3 OR, 2 XR)
Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
INCLUDING ENGINE CONTROL
477/34 TRANSMISSION CONTROL
477/115 .Transmission controlled by engine
477/121 ..By input manifold pressure or engine fuel
control
477/143 ...Servo motor timing
477/154Speed responsive control

10826378_CLSTITLES

- 4 180/247 (0 OR, 4 XR)
 Class 180 : MOTOR VEHICLES
 180/233 HAVING FOUR WHEELS DRIVEN
 180/247 .With manually operated means for disengaging
 drive to one or more, but fewer than all, of the four
 wheels
- 4 192/3.31 (1 OR, 3 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/3.21 VORTEX-FLOW DRIVE AND CLUTCH
 192/3.28 .Including drive-lockup clutch
 192/3.31 ..Having speed-responsive operator
- 4 477/131 (1 OR, 3 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/115 .Transmission controlled by engine
 477/121 ..By input manifold pressure or engine fuel
 control
 477/127 ...Shift valve control
 477/130Plural shift valves
 477/131Electric control
- 4 477/138 (1 OR, 3 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/115 .Transmission controlled by engine
 477/121 ..By input manifold pressure or engine fuel
 control
 477/127 ...Shift valve control
 477/138Electric control
- 3 74/336R (2 OR, 1 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/640 GEARING
 74/325 .Interchangeably locked
 74/333 ..Combined gear and clutch
 74/334 ...Preselector
 74/336RSpeed responsive
- 3 123/90.15 (1 OR, 2 XR)
 Class 123 : INTERNAL-COMBUSTION ENGINES
 123/90.1 POPPET VALVE OPERATING MECHANISM
 123/90.15 .With means for varying timing
- 3 474/28 (2 OR, 1 XR)
 Class 474 : ENDLESS BELT POWER TRANSMISSION SYSTEMS OR
 COMPONENTS
 474/8 PULLEY WITH BELT-RECEIVING GROOVE FORMED BY
 DRIVE FACES ON RELATIVELY AXIALLY MOVABLE COAXIAL
 CONFRONTING MEMBERS (E.G., EXPANSIBLE CONE PULLEY, ETC.)
 474/28 .Fluid pressure actuator for adjustment of
 member
- 3 475/128 (0 OR, 3 XR)

10826378_CLSTITLES

- Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS
- 475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
- 475/116 .Fluid controlled mechanical clutch or brake
- 475/127 ..Pressure regulation
- 475/128 ...Valving controls shift timing
- 3 475/129 (2 OR, 1 XR)
- Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS
- 475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
- 475/116 .Fluid controlled mechanical clutch or brake
- 475/127 ..Pressure regulation
- 475/128 ...Valving controls shift timing
- 475/129With fluid accumulator
- 3 477/149 (1 OR, 2 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
- 477/115 .Transmission controlled by engine
- 477/121 ..By input manifold pressure or engine fuel control
- 477/143 ...Servo motor timing
- 477/144Downshift
- 477/149Electric valve control
- 3 477/158 (0 OR, 3 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
- 477/115 .Transmission controlled by engine
- 477/121 ..By input manifold pressure or engine fuel control
- 477/156 ...Transmission pressure controlled
- 477/158Line pressure controlled
- 3 477/160 (0 OR, 3 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
- 477/115 .Transmission controlled by engine
- 477/121 ..By input manifold pressure or engine fuel control
- 477/156 ...Transmission pressure controlled
- 477/158Line pressure controlled
- 477/159Responsive to speed
- 477/160Electric valve control
- 3 701/52 (0 OR, 3 XR)
- Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
- 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
- 701/51 .Transmission control
- 701/52 ..Semiautomatic control (e.g., switchable between automatic and manual)
- 2 60/406 (0 OR, 2 XR)

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Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/403 .Apparatus having means responsive to or
 ameliorating the effects of breakage, plugging, mechanic

al

failure or power failure
 60/406 ..Output means locked, positioned or released
 on failure of motive fluid supply means

2 60/547.1 (1 OR, 1 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/547.1 ..With control of or by a separate power fluid,
 etc.

2 60/581 (0 OR, 2 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/581 ..Plural structurally related master pistons,
 cylinders or pulsator circuits

2 74/388PS (0 OR, 2 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/640 GEARING
 74/388R .Follow-up mechanism
 74/388PS ..Power steering

2 74/733.1 (1 OR, 1 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/640 GEARING
 74/730.1 .With fluid drive
 74/732.1 ..With one or more controllers for gearing,
 fluid drive, or clutch
 74/733.1 ...With interrelated controls

2 123/90.17 (1 OR, 1 XR)
 Class 123 : INTERNAL-COMBUSTION ENGINES
 123/90.1 POPPET VALVE OPERATING MECHANISM
 123/90.15 .With means for varying timing
 123/90.17 ..Camshaft or cam characteristics

2 137/625.64 (0 OR, 2 XR)
 Class 137 : FLUID HANDLING
 137/561R SYSTEMS
 137/625 .Multi-way valve unit
 137/625.2 ..Supply and exhaust
 137/625.6 ...Pilot-actuated
 137/625.64Electric

2 180/233 (1 OR, 1 XR)
 Class 180 : MOTOR VEHICLES
 180/233 HAVING FOUR WHEELS DRIVEN

2 180/272 (0 OR, 2 XR)
 Class 180 : MOTOR VEHICLES
 180/271 WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS
 OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT

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- 180/272 .Responsive to absence or inattention of operator, or negatively reactive to attempt to operate vehicle by person not qualified mentally or physically to do so
- 2 180/414 (2 OR, 0 XR)
 Class 180 : MOTOR VEHICLES
 180/400 STEERING GEAR
 180/408 .Each wheel steerable
 180/414 ..With fluid power assist
- 2 192/106F (2 OR, 0 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/82R .Operators
 192/103R ..Speed responsive
 192/106R ...Release
 192/106FDevices to prevent fluid clutches from being operated by centrifugal forces acting on fluid
- 2 192/109F (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/109R .Thrust members, retarders, and stops
 192/109F ..Cushioning devices for fluid operators
- 2 192/222 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/215 TRANSMISSION AND BRAKE
 192/218 .Motor vehicle
 192/222 ..Electromagnetic
- 2 192/3.57 (1 OR, 1 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/3.51 TRANSMISSION CONTROL AND CLUTCH CONTROL
 192/3.54 .Common control
 192/3.55 ..Power-operated clutch
 192/3.57 ...Fluid-press operated
- 2 192/30W (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/30W .Warning, indicating, and signal devices
- 2 192/48.91 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/48.1 .Plural clutch-assembly
 192/48.8 ..Associated with three or more shafts
 192/48.9 ...Alternatively operative assemblies
 192/48.91Having common clutch-element support
- 2 192/85AA (1 OR, 1 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/82R .Operators
 192/85R ..Fluid pressure
 192/85AA ...Axially engaging clamping rotating motor and clutch

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- 2 192/85R (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/82R .Operators
 192/85R ..Fluid pressure
- 2 192/87.16 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/82R .Operators
 192/85R ..Fluid pressure
 192/87.1 ...Multiple clutches
 192/87.14Alternatively operative clutches
 192/87.15Clutches coaxial with operators
 192/87.16Common or interconnected operator(s)
- 2 241/36 (2 OR, 0 XR)
 Class 241 : SOLID MATERIAL COMMINUTION OR DISINTEGRATION
 241/33 .With automatic control
 241/36 ..Of comminutor drive
- 2 303/113.2 (1 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 .Having a valve system responsive to a wheel
 lock signal
 303/113.2 ..With traction control
- 2 303/122.12 (0 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/122 .With failure responsive means
 303/122.09 ..Pressure failure
 303/122.12 ...Pump failure detection
- 2 303/71 (0 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/50 MOTORMAN'S VALVES
 303/68 .Motor
 303/71 ..Fluid-pressure retracting
- 2 303/9.61 (0 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9.61 ..Separate and simultaneous control
- 2 417/310 (0 OR, 2 XR)
 Class 417 : PUMPS
 417/279 WITH CONDITION RESPONSIVE PUMPED FLUID CONTROL
 417/307 .Pressure responsive relief or bypass valve
 417/310 ..Rotary expansible chamber pump
- 2 417/38 (1 OR, 1 XR)
 Class 417 : PUMPS
 417/1 CONDITION RESPONSIVE CONTROL OF PUMP DRIVE

10826378_CLSTITLES

MOTOR

- 417/36 .Responsive to accumulation of pumped liquid in receiver
- 417/38 ..By liquid pressure sensor

2 474/18 (1 OR, 1 XR)

Class 474 : ENDLESS BELT POWER TRANSMISSION SYSTEMS OR COMPONENTS

474/8 PULLEY WITH BELT-RECEIVING GROOVE FORMED BY DRIVE FACES ON RELATIVELY AXIALLY MOVABLE COAXIAL CONFRONTING MEMBERS (E.G., EXPANSIBLE CONE PULLEY, ETC.

474/17 .Load responsive

474/18 ..With actuator driven by electrical or fluid motor

2 475/123 (0 OR, 2 XR)

Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING

475/116 .Fluid controlled mechanical clutch or brake

475/118 ..Speed responsive control

475/121 ...Ratio change

475/122Speed responsive valve control

475/123Electrical control

2 475/127 (2 OR, 0 XR)

Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING

475/116 .Fluid controlled mechanical clutch or brake

475/127 ..Pressure regulation

2 475/132 (0 OR, 2 XR)

Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING

475/116 .Fluid controlled mechanical clutch or brake

475/131 ..Manually actuated ratio selector

475/132 ...Electrical

2 475/60 (0 OR, 2 XR)

Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING

475/59 .Impeller-turbine type fluid circuit in series with planetary gearing

475/60 ..And condition responsive control

2 475/61 (0 OR, 2 XR)

Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING

475/59 .Impeller-turbine type fluid circuit in series with planetary gearing

475/60 ..And condition responsive control

475/61 ...Control of or by fluid circuit

2 475/65 (1 OR, 1 XR)

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Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING

475/59 .Impeller-turbine type fluid circuit in series with planetary gearing

475/60 ..And condition responsive control

475/61 ...Control of or by fluid circuit

475/64Fluid circuit controlled

475/65By lock-up clutch actuation

2 477/107 (2 OR, 0 XR)

Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL

477/34 TRANSMISSION CONTROL

477/107 .Engine controlled by transmission

2 477/114 (2 OR, 0 XR)

Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL

477/34 TRANSMISSION CONTROL

477/114 .Anticreep

2 477/116 (1 OR, 1 XR)

Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL

477/34 TRANSMISSION CONTROL

477/115 .Transmission controlled by engine

477/116 ..Shift from neutral shock control

2 477/117 (0 OR, 2 XR)

Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL

477/34 TRANSMISSION CONTROL

477/115 .Transmission controlled by engine

477/116 ..Shift from neutral shock control

477/117 ...Pressure controlled

2 477/123 (2 OR, 0 XR)

Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL

477/34 TRANSMISSION CONTROL

477/115 .Transmission controlled by engine

477/121 ..By input manifold pressure or engine fuel control

477/123 ...With positive shift means

2 477/126 (1 OR, 1 XR)

Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL

477/34 TRANSMISSION CONTROL

477/115 .Transmission controlled by engine

477/121 ..By input manifold pressure or engine fuel control

477/125 ...Prevents unsafe or unintentional shift

477/126Reverse inhibitor

2 477/129 (1 OR, 1 XR)

Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL

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- 477/34 TRANSMISSION CONTROL
 477/115 .Transmission controlled by engine
 477/121 ..By input manifold pressure or engine fuel control
 477/127 ...Shift valve control
 477/128Hysteresis
 477/129Electric control
- 2 477/133 (2 OR, 0 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/115 .Transmission controlled by engine
 477/121 ..By input manifold pressure or engine fuel control
 477/127 ...Shift valve control
 477/130Plural shift valves
 477/131Electric control
 477/132Downshift control
 477/133Kickdown
- 2 477/152 (1 OR, 1 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/115 .Transmission controlled by engine
 477/121 ..By input manifold pressure or engine fuel control
 477/143 ...Servo motor timing
 477/150With fluid accumulator
 477/152Electric valve control
- 2 477/36 (0 OR, 2 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/36 .Plural outputs
- 2 477/62 (1 OR, 1 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/52 .Including fluid drive
 477/53 ..Impeller-turbine-type
 477/62 ...With clutch control
- 2 477/98 (1 OR, 1 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/97 .Control by sensed ambient condition, pattern
 indicia, external signal, or temperature
 477/98 ..Temperature control
- 2 477/99 (2 OR, 0 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/99 .Engine starting interlock

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2	701/65	(1 OR, 1 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/51	.Transmission control
	701/65	..Responsive to road, external, or ambient condition
2	701/66	(0 OR, 2 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/51	.Transmission control
	701/66	..Time regulated operations

10826378_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10826378 on July 12, 2004

- 11 477/906 (0 OR, 11 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/906 MEANS DETECTING OR AMELIORATING THE EFFECTS OF
 MALFUNCTION OR POTENTIAL MALFUNCTION
- 9 477/155 (3 OR, 6 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/115 .Transmission controlled by engine
 477/121 ..By input manifold pressure or engine fuel
 control
 477/143 ...Servo motor timing
 477/155Electric valve control
- 7 180/422 (6 OR, 1 XR)
 Class 180 : MOTOR VEHICLES
 180/400 STEERING GEAR
 180/417 .With fluid power assist
 180/421 ..With condition modulated steering
 180/422 ...With electrical control
- 7 192/3.58 (3 OR, 4 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/3.51 TRANSMISSION CONTROL AND CLUTCH CONTROL
 192/3.54 .Common control
 192/3.55 ..Power-operated clutch
 192/3.57 ...Fluid-press operated
 192/3.58Electrically triggered
- 6 74/335 (3 OR, 3 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/640 GEARING
 74/325 .Interchangeably locked
 74/335 ..Control mechanism
- 5 477/125 (4 OR, 1 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/115 .Transmission controlled by engine
 477/121 ..By input manifold pressure or engine fuel
 control
 477/125 ...Prevents unsafe or unintentional shift
- 5 477/154 (3 OR, 2 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/115 .Transmission controlled by engine
 477/121 ..By input manifold pressure or engine fuel
 control
 477/143 ...Servo motor timing
 477/154Speed responsive control

10826378_CLSTITLES

- 4 180/247 (0 OR, 4 XR)
 Class 180 : MOTOR VEHICLES
 180/233 HAVING FOUR WHEELS DRIVEN
 180/247 .With manually operated means for disengaging
 drive to one or more, but fewer than all, of the four
 wheels
- 4 192/3.31 (1 OR, 3 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/3.21 VORTEX-FLOW DRIVE AND CLUTCH
 192/3.28 .Including drive-lockup clutch
 192/3.31 ..Having speed-responsive operator
- 4 477/131 (1 OR, 3 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/115 .Transmission controlled by engine
 477/121 ..By input manifold pressure or engine fuel
 control
 477/127 ...Shift valve control
 477/130Plural shift valves
 477/131Electric control
- 4 477/138 (1 OR, 3 XR)
 Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
 INCLUDING ENGINE CONTROL
 477/34 TRANSMISSION CONTROL
 477/115 .Transmission controlled by engine
 477/121 ..By input manifold pressure or engine fuel
 control
 477/127 ...Shift valve control
 477/138Electric control
- 3 74/336R (2 OR, 1 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/640 GEARING
 74/325 .Interchangeably locked
 74/333 ..Combined gear and clutch
 74/334 ...Preselector
 74/336RSpeed responsive
- 3 123/90.15 (1 OR, 2 XR)
 Class 123 : INTERNAL-COMBUSTION ENGINES
 123/90.1 POPPET VALVE OPERATING MECHANISM
 123/90.15 .With means for varying timing
- 3 474/28 (2 OR, 1 XR)
 Class 474 : ENDLESS BELT POWER TRANSMISSION SYSTEMS OR
 COMPONENTS
 474/8 PULLEY WITH BELT-RECEIVING GROOVE FORMED BY
 DRIVE FACES ON RELATIVELY AXIALLY MOVABLE COAXIAL
 CONFRONTING MEMBERS (E.G., EXPANSIBLE CONE PULLEY, ETC.)
 474/28 .Fluid pressure actuator for adjustment of
 member
- 3 475/128 (0 OR, 3 XR)

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- Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS
- 475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
 - 475/116 .Fluid controlled mechanical clutch or brake
 - 475/127 ..Pressure regulation
 - 475/128 ...Valving controls shift timing
- 3 475/129 (2 OR, 1 XR)
- Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS
- 475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
 - 475/116 .Fluid controlled mechanical clutch or brake
 - 475/127 ..Pressure regulation
 - 475/128 ...Valving controls shift timing
 - 475/129With fluid accumulator
- 3 477/149 (1 OR, 2 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
 - 477/115 .Transmission controlled by engine
 - 477/121 ..By input manifold pressure or engine fuel control
 - 477/143 ...Servo motor timing
 - 477/144Downshift
 - 477/149Electric valve control
- 3 477/158 (0 OR, 3 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
 - 477/115 .Transmission controlled by engine
 - 477/121 ..By input manifold pressure or engine fuel control
 - 477/156 ...Transmission pressure controlled
 - 477/158Line pressure controlled
- 3 477/160 (0 OR, 3 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
 - 477/115 .Transmission controlled by engine
 - 477/121 ..By input manifold pressure or engine fuel control
 - 477/156 ...Transmission pressure controlled
 - 477/158Line pressure controlled
 - 477/159Responsive to speed
 - 477/160Electric valve control
- 3 701/52 (0 OR, 3 XR)
- Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
- 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
 - 701/51 .Transmission control
 - 701/52 ..Semiautomatic control (e.g., switchable between automatic and manual)

- 2 60/406 (0 OR, 2 XR)

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Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/403 .Apparatus having means responsive to or
 ameliorating the effects of breakage, plugging, mechanic

al

failure or power failure
 60/406 ..Output means locked, positioned or released
 on failure of motive fluid supply means

2 60/547.1 (1 OR, 1 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/547.1 ..With control of or by a separate power fluid,
 etc.

2 60/581 (0 OR, 2 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/581 ..Plural structurally related master pistons,
 cylinders or pulsator circuits

2 74/388PS (0 OR, 2 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/640 GEARING
 74/388R .Follow-up mechanism
 74/388PS ..Power steering

2 74/733.1 (1 OR, 1 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/640 GEARING
 74/730.1 .With fluid drive
 74/732.1 ..With one or more controllers for gearing,
 fluid drive, or clutch
 74/733.1 ...With interrelated controls

2 123/90.17 (1 OR, 1 XR)
 Class 123 : INTERNAL-COMBUSTION ENGINES
 123/90.1 POPPET VALVE OPERATING MECHANISM
 123/90.15 .With means for varying timing
 123/90.17 ..Camshaft or cam characteristics

2 137/625.64 (0 OR, 2 XR)
 Class 137 : FLUID HANDLING
 137/561R SYSTEMS
 137/625 .Multi-way valve unit
 137/625.2 ..Supply and exhaust
 137/625.6 ...Pilot-actuated
 137/625.64Electric

2 180/233 (1 OR, 1 XR)
 Class 180 : MOTOR VEHICLES
 180/233 HAVING FOUR WHEELS DRIVEN

2 180/272 (0 OR, 2 XR)
 Class 180 : MOTOR VEHICLES
 180/271 WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS
 OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT

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- 180/272 .Responsive to absence or inattention of operator, or negatively reactive to attempt to operate vehicle by person not qualified mentally or physically to do so
- 2 180/414 (2 OR, 0 XR)
 Class 180 : MOTOR VEHICLES
 180/400 STEERING GEAR
 180/408 .Each wheel steerable
 180/414 ..With fluid power assist
- 2 192/106F (2 OR, 0 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/82R .Operators
 192/103R ..Speed responsive
 192/106R ...Release
 192/106FDevices to prevent fluid clutches from being operated by centrifugal forces acting on fluid
- 2 192/109F (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/109R .Thrust members, retarders, and stops
 192/109F ..Cushioning devices for fluid operators
- 2 192/222 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/215 TRANSMISSION AND BRAKE
 192/218 .Motor vehicle
 192/222 ..Electromagnetic
- 2 192/3.57 (1 OR, 1 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/3.51 TRANSMISSION CONTROL AND CLUTCH CONTROL
 192/3.54 .Common control
 192/3.55 ..Power-operated clutch
 192/3.57 ...Fluid-press operated
- 2 192/30W (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/30W .Warning, indicating, and signal devices
- 2 192/48.91 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/48.1 .Plural clutch-assembly
 192/48.8 ..Associated with three or more shafts
 192/48.9 ...Alternatively operative assemblies
 192/48.91Having common clutch-element support
- 2 192/85AA (1 OR, 1 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/82R .Operators
 192/85R ..Fluid pressure
 192/85AA ...Axially engaging clamping rotating motor and clutch

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- 2 192/85R (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/82R .Operators
 192/85R ..Fluid pressure
- 2 192/87.16 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/82R .Operators
 192/85R ..Fluid pressure
 192/87.1 ...Multiple clutches
 192/87.14Alternatively operative clutches
 192/87.15Clutches coaxial with operators
 192/87.16Common or interconnected operator(s)
- 2 241/36 (2 OR, 0 XR)
 Class 241 : SOLID MATERIAL COMMINUTION OR DISINTEGRATION
 241/33 .With automatic control
 241/36 ..Of comminutor drive
- 2 303/113.2 (1 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 .Having a valve system responsive to a wheel
 lock signal
 303/113.2 ..With traction control
- 2 303/122.12 (0 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/122 .With failure responsive means
 303/122.09 ..Pressure failure
 303/122.12 ...Pump failure detection
- 2 303/71 (0 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/50 MOTORMAN'S VALVES
 303/68 .Motor
 303/71 ..Fluid-pressure retracting
- 2 303/9.61 (0 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9.61 ..Separate and simultaneous control
- 2 417/310 (0 OR, 2 XR)
 Class 417 : PUMPS
 417/279 WITH CONDITION RESPONSIVE PUMPED FLUID CONTROL
 417/307 .Pressure responsive relief or bypass valve
 417/310 ..Rotary expansible chamber pump
- 2 417/38 (1 OR, 1 XR)
 Class 417 : PUMPS
 417/1 CONDITION RESPONSIVE CONTROL OF PUMP DRIVE

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MOTOR

- 417/36 .Responsive to accumulation of pumped liquid in receiver
- 417/38 ..By liquid pressure sensor

2 474/18 (1 OR, 1 XR)

Class 474 : ENDLESS BELT POWER TRANSMISSION SYSTEMS OR COMPONENTS

- 474/8 PULLEY WITH BELT-RECEIVING GROOVE FORMED BY DRIVE FACES ON RELATIVELY AXIALLY MOVABLE COAXIAL CONFRONTING MEMBERS (E.G., EXPANSIBLE CONE PULLEY, ETC.

474/17 .Load responsive

474/18 ..With actuator driven by electrical or fluid motor

2 475/123 (0 OR, 2 XR)

Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

- 475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
- 475/116 .Fluid controlled mechanical clutch or brake
- 475/118 ..Speed responsive control
- 475/121 ...Ratio change
- 475/122Speed responsive valve control
- 475/123Electrical control

2 475/127 (2 OR, 0 XR)

Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

- 475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
- 475/116 .Fluid controlled mechanical clutch or brake
- 475/127 ..Pressure regulation

2 475/132 (0 OR, 2 XR)

Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

- 475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
- 475/116 .Fluid controlled mechanical clutch or brake
- 475/131 ..Manually actuated ratio selector
- 475/132 ...Electrical

2 475/60 (0 OR, 2 XR)

Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

- 475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
- 475/59 .Impeller-turbine type fluid circuit in series with planetary gearing
- 475/60 ..And condition responsive control

2 475/61 (0 OR, 2 XR)

Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS

- 475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
- 475/59 .Impeller-turbine type fluid circuit in series with planetary gearing
- 475/60 ..And condition responsive control
- 475/61 ...Control of or by fluid circuit

2 475/65 (1 OR, 1 XR)

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- Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS
- 475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
- 475/59 .Impeller-turbine type fluid circuit in series with planetary gearing
- 475/60 ..And condition responsive control
- 475/61 ...Control of or by fluid circuit
- 475/64Fluid circuit controlled
- 475/65By lock-up clutch actuation
- 2 477/107 (2 OR, 0 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
- 477/107 .Engine controlled by transmission
- 2 477/114 (2 OR, 0 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
- 477/114 .Anticreep
- 2 477/116 (1 OR, 1 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
- 477/115 .Transmission controlled by engine
- 477/116 ..Shift from neutral shock control
- 2 477/117 (0 OR, 2 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
- 477/115 .Transmission controlled by engine
- 477/116 ..Shift from neutral shock control
- 477/117 ...Pressure controlled
- 2 477/123 (2 OR, 0 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
- 477/115 .Transmission controlled by engine
- 477/121 ..By input manifold pressure or engine fuel control
- 477/123 ...With positive shift means
- 2 477/126 (1 OR, 1 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
- 477/34 TRANSMISSION CONTROL
- 477/115 .Transmission controlled by engine
- 477/121 ..By input manifold pressure or engine fuel control
- 477/125 ...Prevents unsafe or unintentional shift
- 477/126Reverse inhibitor
- 2 477/129 (1 OR, 1 XR)
- Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL

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- 477/34 TRANSMISSION CONTROL
- 477/115 .Transmission controlled by engine
- 477/121 ..By input manifold pressure or engine fuel control
- 477/127 ...Shift valve control
- 477/128Hysteresis
- 477/129Electric control

- 2 477/133 (2 OR, 0 XR)
 - Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
 - 477/34 TRANSMISSION CONTROL
 - 477/115 .Transmission controlled by engine
 - 477/121 ..By input manifold pressure or engine fuel control
 - 477/127 ...Shift valve control
 - 477/130Plural shift valves
 - 477/131Electric control
 - 477/132Downshift control
 - 477/133Kickdown

- 2 477/152 (1 OR, 1 XR)
 - Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
 - 477/34 TRANSMISSION CONTROL
 - 477/115 .Transmission controlled by engine
 - 477/121 ..By input manifold pressure or engine fuel control
 - 477/143 ...Servo motor timing
 - 477/150With fluid accumulator
 - 477/152Electric valve control

- 2 477/36 (0 OR, 2 XR)
 - Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
 - 477/34 TRANSMISSION CONTROL
 - 477/36 .Plural outputs

- 2 477/62 (1 OR, 1 XR)
 - Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
 - 477/34 TRANSMISSION CONTROL
 - 477/52 .Including fluid drive
 - 477/53 ..Impeller-turbine-type
 - 477/62 ...With clutch control

- 2 477/98 (1 OR, 1 XR)
 - Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
 - 477/34 TRANSMISSION CONTROL
 - 477/97 .Control by sensed ambient condition, pattern indicia, external signal, or temperature
 - 477/98 ..Temperature control

- 2 477/99 (2 OR, 0 XR)
 - Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
 - 477/34 TRANSMISSION CONTROL
 - 477/99 .Engine starting interlock

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2	701/65	(1 OR, 1 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/51	.Transmission control
	701/65	..Responsive to road, external, or ambient condition
2	701/66	(0 OR, 2 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/51	.Transmission control
	701/66	..Time regulated operations